

Agilent 500 Ion Trap LC/MS with the Agilent 1200 Infinity Series

Set-Up Guide

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Use this guide to set up an Agilent 1200 Infinity Series to work with an Agilent 500 Ion Trap LC/MS.

Before you begin, make sure you have:

- Sync cable (p/n G3392-60001)
- G1398B LAN Card Kit (p/n G1369-60002)
- ChemStation Software
- MS Workstation Software

Refer to the ChemStation and MS Workstation installation guides for system requirements.



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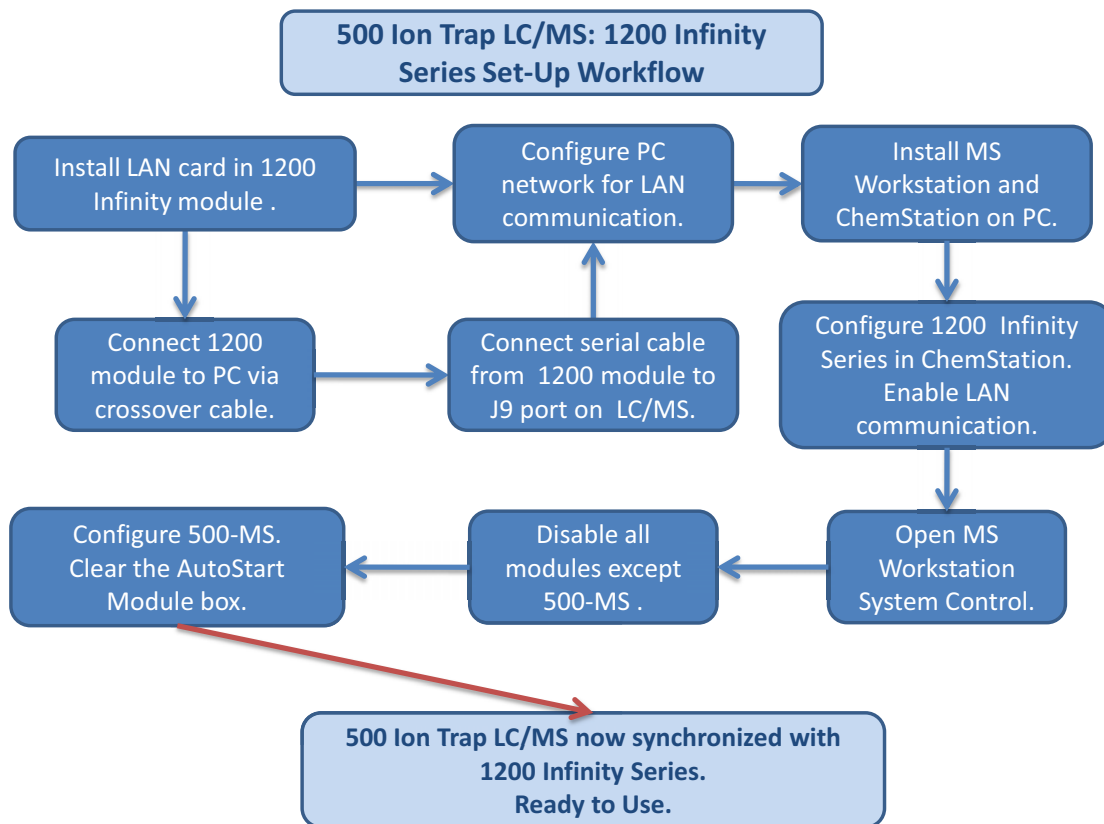


Figure 1 Set-up overview

Step 1. Install the LAN card into the Agilent 1200 Infinity Series

Install the G1369A LAN interface card into the LC detector module. If a detector is not present, install the LAN interface card into the pump module or the autosampler. (The pump module is preferred over the autosampler.)

For G1315C/D DAD SL detectors

The LAN interface for the G1315C/D DAD SL is built into the module main board. No LAN interface card installation is needed, but you need to make sure the switches are properly set.

- 1 Set the switches on the module main board so that switches 7 and 8 are ON or UP.

See [Figure 2](#). Refer to the *Agilent 1200 Series Diode Array and Multiple Wavelength Detector User Manual* (p/n G1315-90012) for more information.

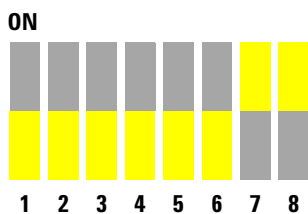


Figure 2 Switch settings to initiate with default settings for the G1315C/D DAD

- 2 Continue at [step 4](#) on [page 5](#).

Step 1. Install the LAN card into the Agilent 1200 Infinity Series

For all other LC modules

- 1 Make a note of the MAC address of the LAN card. See for [Figure 3](#) for location.

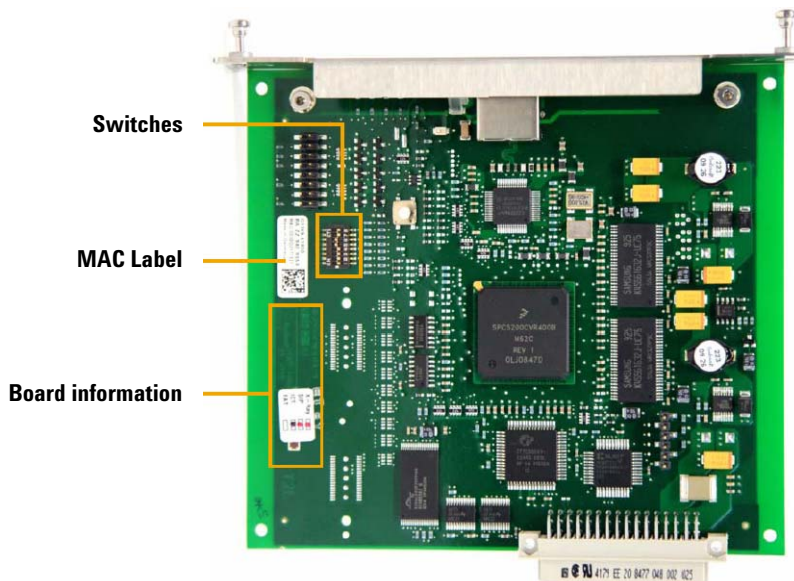


Figure 3 LAN card details

- 2 Set configuration switches 5 and 6 to **ON** so that the card initiates with default settings. See [Figure 4](#).



Figure 4 Switch settings to initiate with default settings

- 3 Follow the instructions that came with the G1369B LAN card to install the card into the pump or autosampler.

Step 1. Install the LAN card into the Agilent 1200 Infinity Series

- 4 Connect one end of the supplied LAN crossover cable to the LAN card. Connect the other end to the LAN connector on the PC that controls the Agilent 500 Ion Trap LC/MS.



Figure 5 Crossover cable connected to the LAN card installed in the Agilent 1200 Infinity Series pump module

The LAN card has been set to the default setting, so it will use the default IP address of **192.168.254.11**

Step 2. Configure the network on the PC to work with the LAN card

Step 2. Configure the network on the PC to work with the LAN card

- 1 On the control PC, click **Start > Control Panel > Network Connections > Local Area Connection > Properties > Internet Protocol (TCP/IP)**.

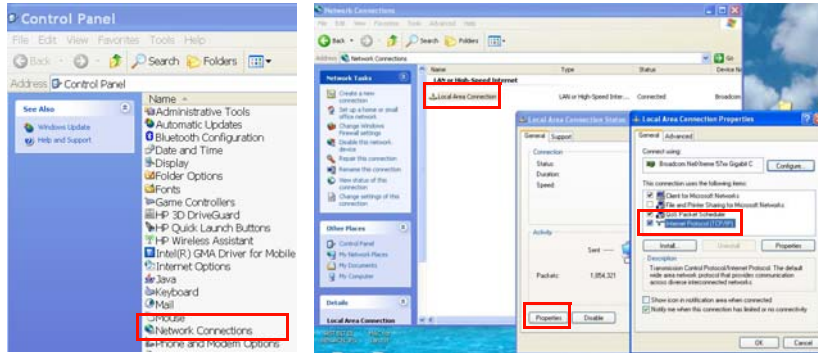


Figure 6 Path to open the Internet Protocol (TCP/IP) Properties dialog box

- 2 In the Internet Protocol (TCP/IP) Properties dialog box, for **IP address**, set the first 3 segments to be the same as the LAN card, that is, 192 . 168 . 254.
- 3 Set the last segment of the **IP Address** to something different from the LAN card, such as 10. See [Figure 7](#).

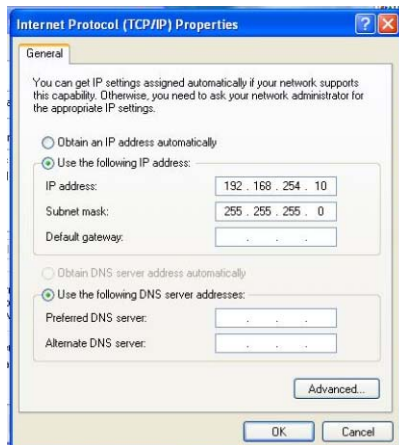


Figure 7 Set IP address

Step 2. Configure the network on the PC to work with the LAN card

- 4 Click **Advanced**, then in the Advanced TCP/IP Settings dialog box:
 - a Click the **IP Settings** tab, then check that the settings match those in [Figure 8](#).



Figure 8 IP Settings

- b Click the **DNS** tab, then check that the settings match those in [Figure 9](#).

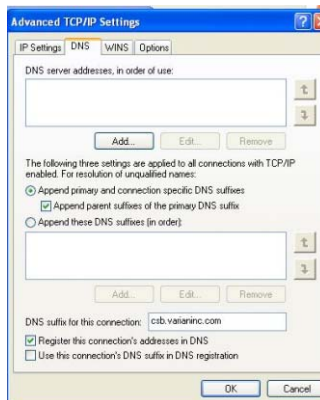


Figure 9 DNS settings

Step 2. Configure the network on the PC to work with the LAN card

- c Click the **WINS** tab, then check that the settings match those in Figure 10.

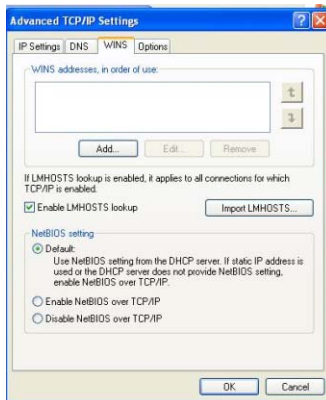


Figure 10 WINS settings

- d Click the **Options** tab, then check that the settings match those in Figure 11.



Figure 11 Options settings

Step 3. Install and set up ChemStation Software

- 1 Install the ChemStation software onto the control PC.
- 2 Configure the 1200 Modules:
 - a Click **Start > All Programs > Agilent ChemStation > Configuration Editor**.

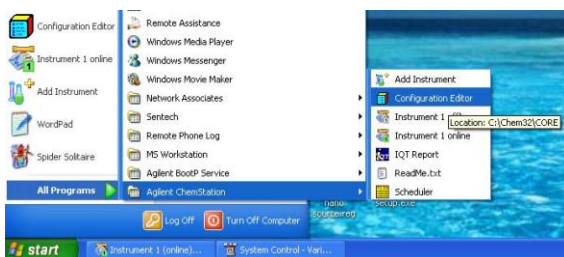


Figure 12 Path to open Configuration Editor

- 3 Click **Configure > Instruments** to open the Select Instrument dialog box.
- 4 For **Instrument Type**, select **Modular Systems (Classic)**, then click **OK**. See [Figure 13](#).

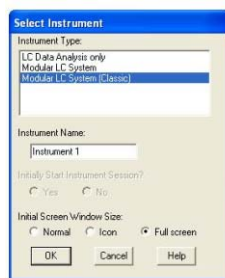


Figure 13 Select Modular Systems (Classic).

- 5 In the Instrument 1 - Device Configuration dialog box:
 - a Click **1100/1200 Access**.
 - b In the 1100 Modular System dialog box, for **IP Address**, type 192.168.254.11, then click **OK**.

Step 3. Install and set up ChemStation Software

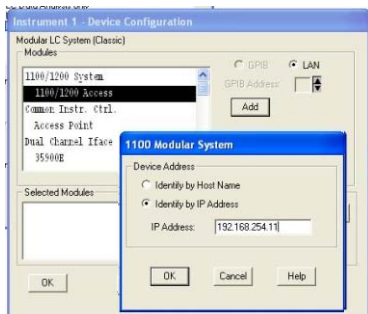


Figure 14 Set IP address for the LC

- c** Check that **1100/1200 System** appears in the Instrument 1 - Device Configuration dialog box to verify that the PC has successfully connected to the Agilent 1200 Infinity Series.

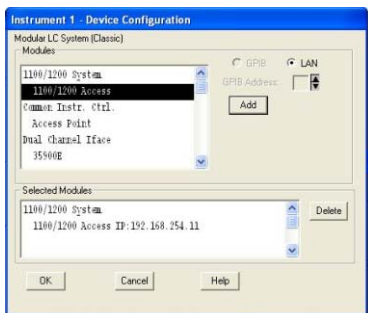


Figure 15 1100/1200 System listed as a configured module

- d** Click **OK**.

Step 4. Connect the Agilent 500 Ion Trap LC/MS to the Agilent 1200 Infinity Series

- 1 Connect one end of the supplied sync cable to the **REMOTE** connector on the back of the autosampler. See [Figure 16](#).



Figure 16 REMOTE connector on the back of the autosampler

- 2 Connect the other end of the sync cable to the **J9 SYNC** port on the back panel of the Agilent 500 Ion Trap LC/MS. See [Figure 17](#)



Figure 17 J9 SYNC port on the back panel of the LC/MS.

Step 5. Configure the Agilent 500 Ion Trap LC/MS

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- 1 Open the Agilent MS Workstation toolbar.
- 2 Right-click the right side of the toolbar, then in the shortcut menu, select **Enable/Disable Instrument Modules**. See [Figure 18](#).

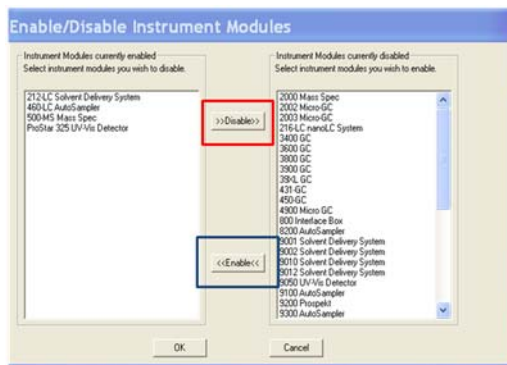


Figure 18 Enable/Disable Instrument Modules dialog box

- 3 Disable all modules *except* for **500-MS Mass Spec**.

To disable a module, select the module from under **Instrument Modules currently enabled**, then click **Disable**.

- 4 Open the System Control window.
- 5 Check that the **500-MS** icon is *not* in the AutoStart Module box. See [Figure 19](#).

Step 5. Configure the Agilent 500 Ion Trap LC/MS

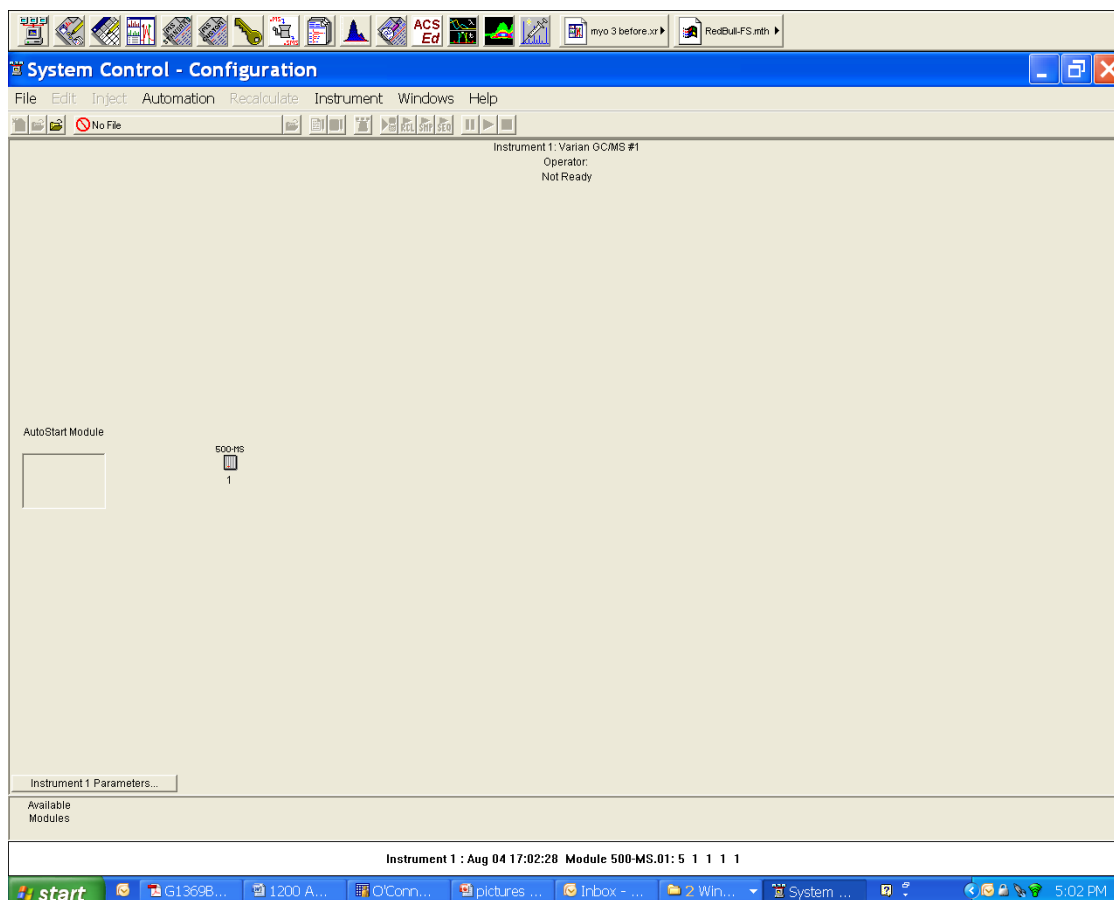


Figure 19 System Control - Configuration window

The Agilent 500 Ion Trap LC/MS is now ready to run sample analysis and collect MS data with the Agilent 1200 Infinity Series.

Refer to the *Agilent 500 Ion Trap LC/MS with the Agilent 1200 Infinity Series Quick Start Guide* for more information on control of the Agilent 1200 Infinity Series with the 500 Ion Trap LC/MS.

Refer to the operation manuals and user guides for both the 500 Ion Trap LC/MS and the Agilent 1200 Infinity Series for operation and maintenance.

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In This Book

This guide describes how to set up the Agilent 1200 Infinity Series to be used with the Agilent 500 Ion Trap LC/MS and the MS Workstation software.

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